

TOSHIBA

Toshiba CD332 User Manual

Toshiba change detect dc input module user's manual

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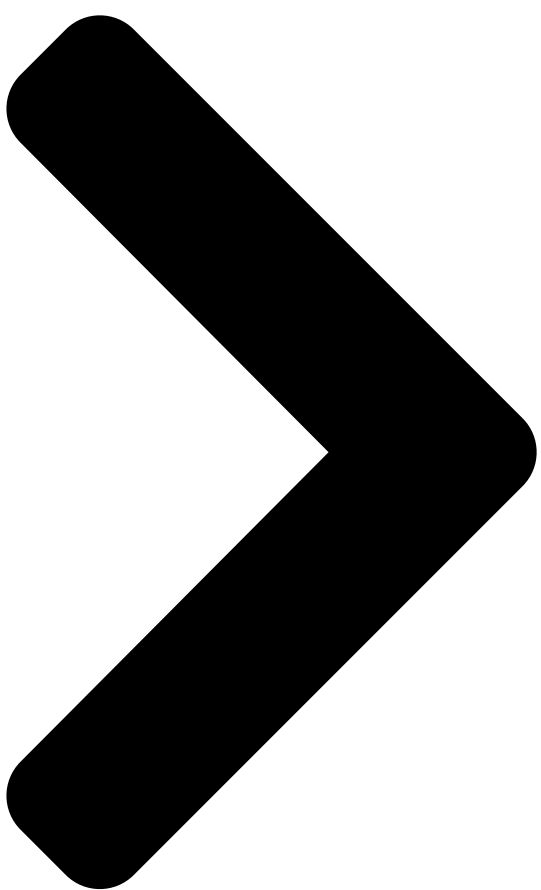
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UM-TS03***-E024

PROGRAMMABLE CONTROLLER

T3

PROSEC

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CD332

USER'S MANUAL

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Summary of Contents for Toshiba CD332

[Page 1](#) UM-TS03***-E024 PROGRAMMABLE CONTROLLER PROSEC CHANGE DETECT DC INPUT MODULE CD332 USER'S MANUAL TOSHIBA CORPORATION...

[Page 3](#) Because controlled system applications vary widely, you should satisfy yourself as to the acceptability of this equipment for your intended purpose. In no event will Toshiba Corporation be responsible or liable for either indirect or consequential damage or injury that

may result from the use of this equipment.

[Page 5: Safety Precautions](#)

T3 and the CD332. • The CD332 has been designed for the T3. Use your CD332 only on the rack of the T3. • Remove the CD332 from the rack before setting the jumper plugs on the CD332.

[Page 6: About This Manual](#)

Inside This Manual Section 1 Overview This section introduces the CD332. The CD332 has an interrupt generation function for the T3. This section outlines the CD332's function. The external features of the CD332 are also provided in this section. Section 2 Specifications This section provides the hardware and functional specifications of the CD332.

[Page 7](#) This manual explains the specifications of the T3H and the functional differences between the T3H and the T3. T-series Instruction Set This manual provides the detailed specifications of instructions for Toshiba's T-series Programmable Controllers. T-series Computer Link Function This manual provides the information for a computer to communicate with T3 through the T-series Programmable Controller's Computer Link function.

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Specifications General specifications Functional specifications Input circuit Input signal connections Mode Setting Input delay setting Interrupt generation timing setting I/O Allocation I/O allocation and I/O register Interrupt assignment Programming T3 sample program Interrupt operation Change Detect DC Input Module (CD332)

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Section 1 CD332 Overview 1.1 Introduction, 6 1.2 External features, 7 User's Manual...

[Page 10: Introduction](#)

Therefore, total up to 64 (= 8 × 8) interrupt factors can be processed by the T3 by using 8 CD332s. The input voltage of the CD332 is 12 to 24 Vdc. The input delay time can be selected either normal or high speed as 8 points block by setting the internal jumper plugs.

[Page 11: External Features](#)

0 1 2 3 4 5 6 7 STATUS 0 1 2 3 4 5 6 7 CHANGE DETECT DOWN CD332 1. CD332 Overview Status LEDs Interrupt timing setting DIP switches Input terminals NOTE Do not connect any wires to the NC terminals.

[Page 12](#) Do not connect any wires to the NC terminals. Jumper plugs CD332 rear view Change Detect DC Input Module (CD332) Indicates the input signal status of IN0 to IN7. Lit when ON. Indicates the input point which is the interrupt factor.

[Page 13: Specifications](#)

Section 2 Specifications 2.1 General specifications, 10 2.2 Functional specifications, 10 2.3 Input circuit, 11 2.4 Input signal connections, 11 User's Manual...

[Page 14](#) Refer to section 3.1. The delay time includes the input filter and internal sampling. Note (2) The interrupt timing is selected by DIP switches. Refer to section 3.2. Change Detect DC Input Module (CD332) Specifications 5 Vdc (supplied from back plane bus) 0.3 A (5 Vdc) maximum...

[Page 15](#) 2.3 Input circuit 2.4 kΩ 470 Ω 2.4 Input signal connections 1.5 μF Input terminal block Do not connect any wire 12 - 24 Vdc 2. Specifications display Interrupt User's Manual...

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Section 3 Mode Setting 3.1 Input delay setting, 14 3.2 Interrupt generation timing setting, 15 User's Manual...

[Page 18](#) 3. Mode Setting 3.1 Input delay setting The input delay time of the CD332 can be

selected either normal or high speed mode. Refer to section 2.2 for the delay time of each mode. The input delay setting is made by the jumper plugs provided on the CD332's printed circuit board.

[Page 19](#) • Falling edge (ON to OFF) Input Interrupt • Both edges (OFF to ON and ON to OFF) Input Interrupt This setting is made by the DIP switches provided on the front of the CD332. CHANGE DETECT DOWN Mode Rising edge Falling edge...

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[Page 21: I/O Allocation](#)

Section 4 I/O Allocation 4.1 I/O allocation and I/O register, 18 4.2 Interrupt assignment, 20 User's Manual...

[Page 22](#) CD332, the following I/O allocation table will be created in the T3. (T-PDS screen example - in the case that CD332 is mounted on Slot 0 of Unit 0) Then, one input register, XW(n) is assigned to the CD332.

[Page 23](#) Data XW(n) Status IN3 The data of the CD332 can be read into the XW(n) register by using the Direct I/O instruction (FUN235). By executing the Direct I/O instruction, the interrupt flag (interrupt request) is reset to OFF internally, and at the same time, the status bits are reset to OFF inside the CD332.

[Page 24: Interrupt Assignment](#)

CD332. And the I/O#1 is activated when the CD332 generates an interrupt. If two or more (up to 8) interrupt generation modules (CD332, etc.) are used, the interrupt programs are assigned sequentially from the module allocated closest to the T3 CPU.

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Section 5 Programming 5.1 T3 sample program, 22 5.2 Interrupt operation, 24 User's Manual...

[Page 26](#) 5. Programming 5.1 T3 sample program The following sample program configuration shows the case of one CD332 is used. In this example, it is assumed that XW000 is assigned to the CD332. Main Program I/O Interrupt Program #1 (I/O#1) Change Detect DC Input Module (CD332)

[Page 27](#) End of the interrupt program NOTE When the Direct I/O instruction for the CD332 is executed, the internal interrupt flag of the CD332 is reset. Therefore, do not use the Direct I/O instruction for the CD332 on the main program, except above.

[Page 28: Interrupt Operation](#)

Note) The held interrupt requests are accepted when interrupt status is changed to enable, according to the priority as follows. (Timer interrupt → I/O#1 → I/O#2 → ... → I/O#8, in default) Change Detect DC Input Module (CD332) HOLD Enable...

[Page 29](#) T3 becomes busy to execute the interrupt program, and cannot execute the main program. • When the CD332 is used, pay attention to the external noise environment. Especially, when using the high speed response mode, check this point carefully.

[Page 30](#) Change Detect DC Input Module (CD332)

[Page 32](#) TOSHIBA INTERNATIONAL (EUROPE) LTD. 1 Roundwood Avenue Stockley Park, Uxbridge Middlesex, ENGLAND UB11 1AR Tel: 0181-848 4466 Fax: 0181-848 4969 TOSHIBA INTERNATIONAL CORPORATION Industrial Division 13131 West Little York Road Houston, TX. 77041, U.S.A. Tel: 713-466-0277 Fax: 713-466-8773 TOSHIBA INTERNATIONAL CORPORATION PTY.